

Title (en)

Tracking control method and apparatus for an optical disc system.

Title (de)

Spurverfolgungssteuerverfahren und Gerät für ein System mit optischen Platten.

Title (fr)

Procédé et appareil de contrôle du suivi de piste pour un système à disque optique.

Publication

EP 0459420 A2 19911204 (EN)

Application

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Priority

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Abstract (en)

n pairs of light beams are applied to an optical disc (D) to form a plurality of beam spots (SP) thereon which are offset by $1/2n$ of a track pitch p, and n signals which are shifted $p/2n$ in spatial phase are generated from detected output signals indicative of light beams reflected from the beam spots (SP). These n signals are multiplied to produce a tracking control signal whose spatial period is $1/n$ of the track pitch p. Alternatively, the optical disc has n pairs of wobbling pits or servo pits which are offset by $1/2n$ of a tracking pitch p are disposed on an optical disc, and the n pairs of servo pits are scanned by a light beam to produce n signals that are shifted $p/2n$ in spatial phase. The tracking control method is effective to effect tracking control on an optical (D) disc whose recording tracks are arranged at a high density that exceeds the spatial cutoff frequency of an optical system of conventional nature used with the tracking control method. <IMAGE>

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CPC (source: EP KR US)

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Cited by

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